## What is claimed is:

		1.	A heteromyeloma cell which does not produce any
			antibody capable of producing a trioma cell which
	5		does not produce any antibody, when fused with a
			human lymphoid cell, wherein the trioma cell is
			capable of producing a tetroma cell capable of
			producing a monoclonal antibody having specific
			binding affinity for an antigen, when fused with a
	10		second human lymphoid cell, the second human
			lymphoid cell being capable of producing antibody
			having specific hinding affinity for the antigen,
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<u>.</u>		Α	with the proviso that the heteromyeloma cell is not B6B11 (AVCC, accession humber HB-1248).
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		2.	A trioma cell which does not produce any antibody
			obtained by fusing a heteromyeloma cell which does
o i			not produce any antibody with a human lymphoid cell.
	20	3.	The trioma cell of claim 2, wherein the
The state of the s	20	3.	The trioma cell of claim 2, wherein the heteromyeloma cell is designated B6B11 (ATCC
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	20	3.	heteromyeloma cell is designated B6B11 (ATCC
Company of the compan	20	3.	heteromyeloma cell is designated B6B11 (ATCC
Company of the compan	20		heteromyeloma cell is designated B6B11 (ATCC accession number).
Company of the compan			heteromyeloma cell is designated B6B11 (ATCC accession number).  The trioma cell of claim 2, wherein the
Company of the compan			heteromyeloma cell is designated B6B11 (ATCC accession number).  The trioma cell of claim 2, wherein the
Company of the compan		4.	heteromyeloma cell is designated B6B11 (ATCC accession number).  The trioma cell of claim 2, wherein the heteromyeloma cell is a B6B11-like cell.
Complete State of the		4.	heteromyeloma cell is designated B6B11 (ATCC accession number).  The trioma cell of claim 2, wherein the heteromyeloma cell is a B6B11-like cell.  The trioma cell of claim 2, wherein the human
Complete State of the		4.	heteromyeloma cell is designated B6B11 (ATCC accession number).  The trioma cell of claim 2, wherein the heteromyeloma cell is a B6B11-like cell.  The trioma cell of claim 2, wherein the human
Complete State of the	25	4.	heteromyeloma cell is designated B6B11 (ATCC accession number).  The trioma cell of claim 2, wherein the heteromyeloma cell is a B6B11-like cell.  The trioma cell of claim 2, wherein the human lymphoid cell is a myeloma cell.
Complete State of the	25	4.	heteromyeloma cell is designated B6B11 (ATCC accession number).  The trioma cell of claim 2, wherein the heteromyeloma cell is a B6B11-like cell.  The trioma cell of claim 2, wherein the human lymphoid cell is a myeloma cell.  The trioma cell of claim 2, wherein the human lymphoid cell is a myeloma cell.
Complete State of the	25	4.	heteromyeloma cell is designated B6B11 (ATCC accession number).  The trioma cell of claim 2, wherein the heteromyeloma cell is a B6B11-like cell.  The trioma cell of claim 2, wherein the human lymphoid cell is a myeloma cell.  The trioma cell of claim 2, wherein the human lymphoid cell is a myeloma cell.
Complete State of the	25	<ul><li>4.</li><li>5.</li><li>6.</li></ul>	heteromyeloma cell is designated B6B11 (ATCC accession number).  The trioma cell of claim 2, wherein the heteromyeloma cell is a B6B11-like cell.  The trioma cell of claim 2, wherein the human lymphoid cell is a myeloma cell.  The trioma cell of claim 2, wherein the human lymphoid cell is a splenocyte or a lymph node cell.

8. A tetroma cell capable of producing a monoclonal antibody having specific binding affinity for an

antigen obtained by fusing the trioma cell of claim 2 with a human lymphoid cell capable of producing antibody having specific binding affinity for the antigen.

			antibody having specific binding affinity for the
			antigen. \
	5	9.	The tetrona coll of claim of the bound
		Э.	The tetroma cell of claim 8, wherein the human
			lymphoid cell is a peripheral blood lymphocyte, a splenocyte, a lymph node cell, a B cell, a T cell,
			a tonsil gland lymphocyte, a monocyte, a macrophage,
	10		an erythroblastoid cell or a Peyer's patch cell.
			/
		10.	The tetroma cell of claim 8, wherein the trioma cell
			is designated MFP-2 APCC accession number).
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7.5	15	11.	The tetroma cell of claim &, wherein the antigen is
and the second			a tumor-associated antigen, \a cell-specific antigen,
N M			a tissue- specific antigen $igwedge$ an enzyme, a nucleic
			acid, an immunoglobulin, a toxin, a viral antigen, a
			bacterial antigen or a eukaryotic antigen.
	20		
		12.	The tetroma cell of claim 8, wherein the antigen is
1			a mammalian, insect, fungal, E.coli or Klebsiella
			antigen.
	25	13.	A monoclonal antibody produced by the tetroma of
		20.	claim 8.
		14.	An isolated nucleic acid encoding the monoclonal
			antibody of claim 13.
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		15.	A method of generating the trioma cell of claim 2
			comprising:
			(a) fusing a heteromyeloma cell which does not
			produce antibody with a human lymphoid cell
	35		thereby forming a trioma cell;

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(c)

incubating the trioma cell formed in step (a) under conditions permissive to the production df antibody by the trioma cell; and (c) selecting a trioma cell that does not produce antibody. The method of claim 15, further comprising selecting a trioma cell that is capable of growth in serumfree media The method of claim 15, further comprising selecting a trioma cel that is capable of fusing with a peripheral blood lymphocyte lymph ornode lymphocyte. The method of claim 15, wherein the heteromyel cell of step (a) is designated B6B11 (ATCC acceptance) The method of claim \$15, wherein the heteromyeloma cell of step (a) is a B6B11-like cell. The method of claim 15, wherein the human lymphoid cell is a lymph node tymphocyte or a splenocyte. A trioma cell generated by the method of claim 15. A method of generating a tet/roma cell comprising: fusing the trioma cell of claim 2 with a human lymphoid cell thereby forming a tetroma cell; (b) incubating the tetroma cell formed in step (a) under conditions permissive\to the production

of antibody by the tetroma cell; and

a monoclonal antibody.

selecting a tetroma cell capable of producing

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- 23. The method of claim 22, wherein the trioma cell of Designation Number HB-12462

  A step (a) is designated MFP-2 (ATCC accession number

  ).
- The method of claim 22, wherein the human lymphoid cell is a peripheral blood lymphocyte, a splenocyte, a lymph node cell, a B cell, a T cell, a tonsil gland lymphocyte, a monocyte, a macrophage, an erythroblastoid cell or a Peyer's patch cell.
- 25. The method of claim 22, wherein the human lymphoid cell produces antibodies having specific binding affinity for an antigen and wherein the tetroma cell produces a monoclonal antibody having specific binding affinity for the antigen.
  - 26. The method of claim 22, wherein the antigen is a tumor-associated antigen, a cell-specific antigen, a tissue- specific antigen, an enzyme, a nucleic acid, an immunoglobulin, a toxin, a viral antigen, a bacterial antigen or a eukaryotic antigen.
- 27. The method of claim 22, wherein the antigen is a mammalian, insect, fungal, E.coli or Klebsiella antigen.
  - 28. A tetroma cell generated by the method of claim 22.
    - A method of producing a monoclonal antibody comprising:
    - (a) fusing a lymphoid cell capable of producing antibody with the trioma cell of claim 2, thereby forming a tetroma cell; and
    - (b) incubating the tetroma cell formed in step (b) under conditions permissive to the production of antibody by the tetroma cell, thereby producing the monoclonal antibody.

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- A method of producing a monoclonal antibody specific an antigen associated with a condition in a subject comprising: 5 fusing a lymphoid cell capable of producing (a) Antibody with the trioma cell of claim 2, thereby forming a tetroma cell; incubating the tetroma cell formed in step (a) (b) under conditions permissive to the production 10 of antibody by the tetroma cell; select\ing (C) a tetroma cell producing monoclomal antibody; contacting the monoclonal antibody of step (c) (d) with  $(1)\setminus a$  sample from a subject with the condition \or (2) a sample from a subject without the condition under conditions permissive to the formation of a complex between the\ monoclonal antibody and sample; 20 detecting the \ complex formed (e) between the monoclonal antibody and the sample; (f) determining the \amount of complex formed in
  - (g) comparing the amount of complex determined in step (f) for the sample from the subject with the condition with amount determined in step (f) for the sample from the subject without the condition, a greater amount of complex formation for the sample from the subject with the condition indicating that a monoclonal antibody specific for the antigen specific for the condition is produced.
- The method of claim 29, step (a) further comprising 31. 35 freezing the lymphoid cell.

step (e); and

	32.	The method of claim 29, step (b) further comprising incubating the selected tetroma cell under					
5		conditions permissive to cell replication.					
	33.	The method of claim 32, wherein the tetromare replication is effected in vitro or in vivo.					
10	34. A	The method of claim 29, wherein the trioma cell is designated MFP-2 (ATCC) Accession No).					
	35.	A monoclonal antibody produced by the method of claim 29.					
15	36.	An isolated nucleic acid encoding the monoclonal antibody of claim 35.					
20	37.	A monoclonal antibody produced by the method of claim 30.					
	38.	An isolated nucleic acid encoding the monoclonal antibody of claim 37.					
	39.	A method of identifying an antigen associated with					
25		a condition in a sample comprising:  (a) contacting the monoclonal antibody of claim 35					
		(a) contacting the monoclonal antibody of claim 35 with the sample under conditions permissive to					
		the formation $iggle$ of a complex between the					
30		monoclonal antibody and the sample;					
30		<ul><li>(b) detecting the complex formed in step (a); and</li><li>(c) isolating the complex detected in step (b).</li></ul>					
		(c) isolating the complex detected in step (b), thereby identifying the antigen associated					
		with the condition in the sample.					

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The

method

monoclonal antibod

separating

of

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claim

Monoclonal

39,

antigen complex.

further

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- 41. The method of claim 40, wherein the separation is by size fractionation.
- 5 42. The method of claim 41, wherein the size fractionation is effected by polyacrylamide or agarose gel electrophoresis.
- 43. A method of diagnosing a condition in a subject comprising:
  - (a) contacting a sample from the subject with the monoclonal antibody of claim 35 under conditions permissive to the formation of a complex between the monoclonal antibody and the sample; and
  - (b) detecting the complex formed between the monoclonal antibody and the sample, positive detection indicating the presence of an antigen specific for the condition in the sample, thereby diagnosing the condition in the subject.
- 25 44. The method of claim 43, wherein the monoclonal antibody is coupled to a detectable marker.
- 45. The method of claim 44, wherein the detectable marker is a radiolabeled molecule, a fluorescent molecule, an enzyme, a ligand, a colorimetric marker or a magnetic bead.
  - 46. A composition comprising the monoclonal antibody of claim 35 and a suitable carrier.

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- 47. A therapeutic composition comprising an effective amount of the monoclonal antibody of claim 35 and a pharmaceutically acceptable carrier.
- 5 48. The therapeutic composition of claim 47, wherein the condition is cancer and the amount of monoclonal antibody is sufficient to inhibit the growth of or eliminate the cancer.
- 10 49. The therapeutic composition of claim 48, wherein the cancer is breast cancer, thyroid cancer or prostate cancer.
- 50. The therapeutic composition of claim 47, wherein the condition is an infection and the amount of monoclonal antibody is sufficient to inhibit the growth of or kill the infectious agent.
- 51. The therapeutic composition of claim 50, wherein the infectious agent is Hanta virus, HTLV I, HTLV II, HIV, herpes virus, influenza virus, Ebola virus, human papilloma virus, Staphlococcus, Streptococcus, Klebsiella, E. coli, anthrax pr cryptococcus.
- 25 52. The therapeutic composition of claim 47, wherein the condition is associate with a toxin and the amount of monoclonal antibody is sufficient to reduce the amount of or destroy the toxin.
- 30 53. The therapeutic composition of claim 52, wherein the toxin is tetanus, anthrax, botulinum, snake venom or spider venom.
- 54. The therapeutic composition of claim 47, wherein the condition is an autoimmune disease and the amount of

monoclonal  $\lambda_n$ tibody is sufficient to reduce the

thereby preventing the condition in the subject.

amount of or destroy the offending antibody. The therapeutic composition of claim 54, wherein the 55. autoimmune disease is lupus, thyroiditis, graft 5 versus host diseas&, transplantation rejection or rheumatoid arthritis The therapeutic composition of claim 47, wherein the 56. monoclonal antibody is \ doupled to an effector 10 molecule. DOVEYEVE DINUTE The therapeutic composition of claim 56, wherein the 57. effector molecule is a cytatoxic agent, drug, enzyme, dye, or radioisotope. 15 The therapeutic composition of claim 47, wherein the 58. monoclonal antibody is coupled to a carrier. wherein the The therapeutic composition of claim 58, 20 59. carrier is a liposome. A method of \treating a condition in a subject 60. comprising administering to the subject an amount of the therapeutic composition of claim 47 effective to 25 bind the antigen associated with the condition, thereby treating the condition in the subject. A method of preventing a condition in a subject 61. comprising administering to the subject an amount of 30 the therapeutic composition of claim 47 effective to bind the antigen associated with the condition,

- 62. The method of claim 61, wherein the subject previously exhibited the condition.
- 63. The method of claim 60 or 61, wherein the therapeutic composition is administered to a second subject.
- 64. The method of claim 29, 30, 39, 43, 60 or 61, wherein the condition is associated with a cancer, a tumor, a toxin, an infectious agent, an enzyme dysfunction, a hormone dysfunction, an autoimmune disease, an immune dysfunction, a viral antigen, a bacterial antigen, a eukaryotic antigen, or rejection of a transplanted tissue.
  - 65. The method of claim 64, wherein the condition is septicemia, sepsis, septic shock, viremia, bacteremia or fungemia.
- 20 66. The method of claim 64, wherein the cancer is thyroid cancer, breast cancer or prostate cancer.
- 67. The method of claim 64, wherein the infectious agent is Hanta virus, HTLV I, HTLV II, HIV, herpes virus, influenza virus, Ebola virus, human papilloma virus, Staphlococcus, Streptococcus, Klebsiella, E. coli, anthrax or cryptococcus.
- 68. The method of claim 64, wherein the toxin is tetanus, anthrax, botulinum, snake venom or spider venom.
  - 69. The method of claim 64, wherein the tumor  $\downarrow$ s benign.

- 70. The method of claim 64, wherein the enzyme dysfunction is hyperactivity or overproduction of the enzyme.
- 71. The method of claim 64, wherein the hormone dysfunction is hyperactivity or overproduction of the hormone.
- 72. The method of claim 64, wherein the immune dysfunction is CD3 or CD4 mediated.
  - 73. The method of claim 64, wherein the autoimmune disease is lupus, thyroiditis graft versus host disease, transplantation rejection or rheumatoid arthritis.